AMENDMENT

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently Amended): A method for building a representation of a graphical user interface (GUI), comprising:

generating a class, the class being an object oriented programming language class; generating a first representation of the GUI, wherein the class can produce a second representation GUI based on the first representation; generating a second representation of the GUI from the class, wherein the second

representation includes at least one control; and

wherein the first representation includes hierarchical relationships among controls, control properties, and control event information;

wherein the hierarchal relationships between controls are defined by a control tree that includes a portal control, a desktop control, a page control and a portlet control.

- (Original): The method of claim 1, further comprising: creating the first representation by parsing a file.
- 3. (Original): The method of claim 2 wherein: the file is a JavaServer Pages (JSP) file.
- 4. (Original): The method of claim I wherein: the second representation is a tree.
- 5. (Original): The method of claim 1 wherein:

the step of generating the class occurs as a result of receiving a request.

6. (Original): The method of claim 5 wherein:

the request is a hypertext transfer protocol request (HTTP); and the request originates from a web browser

 (Original): The method of claim 1, further comprising: providing a response to a web browser.

8. (Original): The method of claim 1 wherein:

the second representation can be driven through at least one lifecycle stage by an interchangeable lifecycle component.

9. (Original): The method of claim 1 wherein:

the at least one control has an interchangeable persistence mechanism.

10. (Original): The method of claim I wherein:

the at least one control can render itself according to a theme.

11. (Original): The method of claim I wherein:

one of the at least one controls can interact with another of the at least one controls.

12. (Original): The method of claim 1 wherein:

one of the at least one controls can advance through the at least one lifecycle stage in parallel with another of the at least one controls.

13. (Original): The method of claim 8 wherein:

the at least one lifecycle stage is one of: mit, load state, create child controls, load, raise events, pre-render, render, save state, unload and dispose; and wherein the lifecycle stage is part of a dynamically configurable lifecycle.

14. (Original): The method of claim 7 wherein: the response is a hypertext transfer protocol (HTTP) response.

15. (Original): The method of claim I wherein: the at least one control can raise events and respond to events.

16. (Original): The method of claim 1 wherein:
the at least one control can be one of: Book, Page, Window, Menu, Layout, Portlet, Theme,
Placeholder, Shell, LookAndFeel, Desktop, Body, Footer, Header, Head, Titlebar, ToggleButton,
TreeView TreeViewWithRadioButtons

17. (Currently Amended): A method for building a representation of a graphical user interface (GUI), comprising:

generating a representation of the GUI from metadata, wherein the representation includes at least one control;

driving the representation through at least one lifecycle stage by an interchangeable lifecycle component;

wherein the metadata can include at least one of: hierarchical relationships among controls, control properties, and control event information; and

wherein the representation can be driven through the at least one lifecycle stage by an interchangeable lifecycle component;

wherein an interface is provided to isolate details of the interchangeable lifecycle component from a control container to allow different lifecycle implementations to be interchangeable, the interchangeable lifecycle component further drives a control tree through different lifecycle stages, the control tree includes portal controls, desktop controls, page controls and portlet controls;

wherein the interchangeable life cycle component runs on at least one processor.

18. (Original): The method of claim 17, further comprising: creating the metadata by parsing a file.

19. (Original): The method of claim 17 wherein:

the step of generating the metadata representation occurs as a result of receiving a request.

20. (Original): The method of claim 19 wherein:

the request is a hypertext transfer protocol request (HTTP); and wherein the request originates from a web browser.

21. (Original): The method of claim 17, further comprising: providing a response to a web browser.

22. (Original): The method of claim 17 wherein:

the at least one control has an interchangeable persistence mechanism.

23. (Original): The method of claim 17 wherein:

the at least one control can render itself according to a theme.

24. (Original): The method of claim 17 wherein:

one of the at least one controls can interact with another of the at least one controls.

25. (Original): The method of claim 17 wherein:

one of the at least one controls can advance through the at least one lifecycle stage in parallel with another of the at least one controls.

26. (Original): The method of claim 17 wherein:

the at least one lifecycle stage is one of: mit, load state, create child controls, load, raise events, pre-render, render, save state, unload and dispose; and wherein the lifecycle stage is part of a dynamically configurable lifecycle.

27. (Original): The method of claim 21 wherein:

the response is a hypertext transfer protocol (HTTP) response.

28. (Original): The method of claim 17 wherein:

controls can raise events and respond to events.

29. (Original): The method of claim 17 wherein:

the at least one control can be one of: Book, Page, Window, Menu, Layout, Portlet, Theme, Placeholder, Shell, LookAndFeel, Desktop, Body, Footer, Header, Head, Titlebar, ToggleButton, TreeView, TreeViewWithRadioButtons.

30. (Currently Amended): A system for building a representation of a graphical user interface (GUI), comprising:

a first component operable to produce a second component and a metadata representation of the GUI;

the second component operable to produce a hierarchical representation of the GUI based on the metadata, wherein the representation includes at least one control:

wherein the metadata can include at least one of: hierarchical relationships among controls, control properties, and control event information; and

wherein the representation can be driven through at least one lifecycle stage by an interchangeable lifecycle component:

wherein an interface is provided to isolate details of the interchangeable lifecycle component from a control container to allow different lifecycle implementations to be interchangeable;

wherein the interchangeable lifecycle component further drives a control tree through different lifecycle stages, the control tree includes portal controls, desktop controls, page controls and portlet controls; and

wherein the interchangeable life cycle component runs on at least one processor.

- 31. (Original): The system of claim 30, further comprising: a parser operable to parse a file and create the metadata.
- 32. (Original): The system of claim 31 wherein: the file is a JavaServer Pages (JSP) file.
- 33. (Previously Presented): The system of claim 30 wherein:
 a first generator produces a second generator in response to receiving a request.
- 34. (Original): The system of claim 33 wherein: the request is a hypertext transfer protocol request (HTTP); and wherein the request originates from a web browser.
- 35. (Original): The system of claim 30 wherein: a response is provided to a web browser.

36. (Original): The system of claim 30 wherein: the at least one control has an interchangeable persistence mechanism.

37. (Original): The system of claim 30 wherein: the at least one control can render itself according to a theme.

38. (Original): The system of claim 30 wherein:
one of the at least one controls can interact with another of the at least one controls.

39. (Original): The system of claim 30 wherein: one of the at least one controls can advance through the at least one lifecycle stage in parallel with another of the at least one controls.

40. (Original): The system of claim 30 wherein: the at least one lifecycle stage is one of: init, load state, create child controls, load, raise events, pre-render, render, save state, unload and dispose; and wherein the lifecycle stage is part of a dynamically configurable lifecycle.

- 41. (Original): The system of claim 35 wherein: the response is a hypertext transfer protocol (HTTP) response.
- 42. (Original): The system of claim 30 wherein: the at least one control can raise events and respond to events.
- 43. (Original): The system of claim 30 wherein:

the at least one control can be one of: Book, Page, Window, Menu, Layout, Portlet, Theme, Placeholder, Shell, LookAndFeel, Desktop, Body, Footer, Header, Head, Titlebar, ToggleButton, TreeView, TreeViewWithRadioButtons.

44. (Currently Amended): A system comprising:

a means for generating a first representation of a graphical user interface (GUI); a means for generating a second representation of the GUI from the first representation, wherein the second representation includes at least one control:

wherein metadata can include at least one of hierarchical relationships among controls, control properties, and control event information; and

wherein the second representation can be driven through at least one lifecycle stage by an interchangeable lifecycle component;

wherein an interface is provided to isolate details of the interchangeable lifecycle component from a control container to allow different lifecycle implementations to be interchangeable;

wherein the interchangeable lifecycle component further drives a control tree through different lifecycle stages, the control tree includes portal controls, desktop controls, page controls and portlet controls; and

wherein the interchangeable life cycle component runs on at least one processor.

45. (Original): The system of claim 44, further comprising: a means for parsing a file and creating the metadata.

46. (Original): T he system of claim 45 wherein: the file is a JavaServer Pages (JSP) file.

47. (Original): The system of claim 44, further comprising:

the means for accepting a request.

48. (Original): The system of claim 47 wherein:

the request is a hypertext transfer protocol request (HTTP); and wherein the request originates from a web browser.

49. (Original): The system of claim 44, further comprising: a means to provide a response to a web browser.

50. (Original): The system of claim 44 wherein:

the at least one control has an interchangeable persistence mechanism.

51. (Original): The system of claim 44 wherein:

the at least one control can render itself according to a theme.

52. (Original): The system of claim 44 wherein:

one of the at least one controls can interact with another of the at least one controls.

53. (Original): The system of claim 44 wherein:

one of the at least one controls can advance through the at least one lifecycle stage in parallel with another of the at least one controls.

54. (Original): The system of claim 44 wherein:

the at least one lifecycle stage is one of: init, load state, create child controls, load, raise events, pre-render, render, save state, unload and dispose; and wherein the lifecycle stage is part of a dynamically configurable lifecycle.

55. (Original): The system of claim 49 wherein:

the response is a hypertext transfer protocol (HTTP) response.

56. (Original): The system of claim 44 wherein:

the at least one control can raise events and respond to events.

57. (Original): The system of claim 44 wherein:

the at least one control can be one of: Book, Page, Window, Menu, Layout, Portlet, Theme, Placeholder, Shell, LookAndFeel, Desktop, Body, Footer, Header, Head, Titlebar, ToggleButton, TreeView, TreeViewWithRadioButtons.

58. (Currently Amended): A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

generate a representation of a graphical user interface (GUI) from metadata, wherein the representation includes at least one control;

drive the representation through at least one lifecycle stage by an interchangeable lifecycle component;

wherein the metadata can include at least one of: hierarchical relationships among controls, control properties, and control event information; and

wherein the representation can be driven through the at least one lifecycle stage by the interchangeable lifecycle component;

wherein an interface is provided to isolate details of the interchangeable lifecycle component from a control container to allow different lifecycle implementations to be interchangeable;

wherein the interchangeable lifecycle component further drives a control tree through different lifecycle stages, the control tree includes portal controls, desktop controls, page controls and portlet controls; and

wherein the interchangeable life cycle component runs on at least one processor.

59. (Original): The machine readable medium of claim 58, further comprising instructions that when executed cause the system to:

create the metadata by parsing a file.

60. (Original): The machine readable medium of claim 58 wherein: the step of generating the metadata representation occurs as a result of receiving a request.

61. (Original): The machine readable medium of claim 60 wherein: the request is a hypertext transfer protocol request (HTTP); and wherein the request originates from a web browser.

62. (Original): The machine readable medium of claim 58, further comprising instructions that when executed cause the system to:

provide a response to a web browser.

- 63. (Original): The machine readable medium of claim 58 wherein: the at least one control has an interchangeable persistence mechanism.
- 64. (Original): The machine readable medium of claim 58 wherein: the at least one control can render itself according to a theme.
- 65. (Original): The machine readable medium of claim 58 wherein: one of the at least one controls can interact with another of the at least one controls.

66 (Original): The machine readable medium of claim 58 wherein:

one of the at least one controls can advance through the at least one lifecycle stage in parallel with another of the at least one controls.

67. (Original): The machine readable medium of claim 58 wherein:

the at least one lifecycle stage is one of: init, load state, create child controls, load, raise events, pre-render, render, save state, unload and dispose; and wherein the lifecycle stage is part of a dynamically configurable lifecycle.

 $68. \ \ (Original); \quad \ The \ machine \ readable \ medium \ of \ claim \ 62 \ wherein:$

the response is a hypertext transfer protocol (HTTP) response.

69. (Original): The machine readable medium of claim 58 wherein: controls can raise events and respond to events.

70. (Original): The machine readable medium of claim 58 wherein:

the at least one control can be one of: Book, Page, Window, Menu, Layout, Portlet, Theme, Placeholder, Shell, LookAndFeel, Desktop, Body, Footer, Header, Head, Titlebar, ToggleButton, TreeView, TreeViewWithRadioButtons.

71. (Canceled)